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Docket No. 0756-2428

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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TECHNOLOGY CENTER 2800

In re Patent Application of) Art Unit: 2811
Osamu NAKAMURA ET AL.) Examiner: Unassigned
Serial No. 10/056,055)
Filed: January 28, 2002)
For: SEMICONDUCTOR DEVICE AND) CERTIFICATE OF MAILING
MANUFACTURING METHOD OF)
THE SAME)
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INFORMATION DISCLOSURE STATEMENT
AND NOTIFICATION OF RELATED APPLICATION

Commissioner for Patents
Washington, DC 20231

Sir:

In accordance with the provisions of 37 C.F.R. 1.56 and 37 C.F.R. 1.97-1.99, Applicant submits herewith a Form PTO-1449 listing references known to Applicant and requests that these references be considered by the Examiner and made of record in the above identified application. Copies of the references listed are submitted herewith in accordance with 37 C.F.R. 1.98(a).

The documents are being submitted before the first Office Action on the merits, therefore no fee or certification is required under 37 C.F.R. § 1.97(b).

The Examiner's attention is direct to related application serial numbers 10/097,641, 10/072,931, 10/074,050, 10/051,064, 10/066,542, and 10/020,961. which are listed on the Form PTO-1449 submitted herewith.

The Commissioner is hereby authorized to charge any fees connected with this filing which may be required now, or credit any overpayment to Deposit Account No. 50-2280.

Respectfully submitted,


Eric J. Robinson
Reg. No. 38,285

Robinson Intellectual Property Law Office, P.C.
PMB 955
21010 Southbank Street
Potomac Falls, Virginia 20165
(571) 434-6789



11/22/02

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TRANSMITTAL FORM

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Total Number of Pages in This Submission

Application Number 10/056,055

Filing Date January 28, 2002

First Named Inventor Osamu NAKAMURA et al.

Group Art Unit 2811

Examiner Name Unassigned

Attorney Docket Number 0756-2428

ENCLOSURES (check all that apply)

- Fee Transmittal Form
- Fee Attached
- Amendment / Reply
- After Final
- Affidavits/declaration(s)
- Extension of Time Request
- Express Abandonment Request
- Information Disclosure Statement
- Certified Copy of Priority Document(s)
- Response to Missing Parts/ Incomplete Application
- Response to Missing Parts under 37 CFR 1.52 or 1.53

- Assignment Papers (for an Application)
- Drawing(s)
- Declaration and Power of Attorney
- Licensing-related Papers
- Petition
- Petition to Convert to a Provisional Application
- Power of Attorney, Revocation Change of Correspondence Address
- Terminal Disclaimer
- Request for Refund
- CD, Number of CD(s)

- After Allowance Communication to Group
- Appeal Communication to Board of Appeals and Interferences
- Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
- Proprietary Information
- Status Letter
- Other Enclosures

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- 3.
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- 5.
- 6.

Remarks

The Commissioner is hereby authorized to charge any additional fees required or credit any overpayments to Deposit Account No. 50-2280 for the above identified docket number.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Eric J. Robinson, Reg. No. 38,285 Robinson Intellectual Property Law Office, P.C. PMB 955 21010 Southbank Street Potomac Falls, VA 20165
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Signature	
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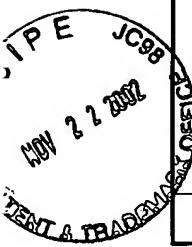
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				<i>Complete if Known</i>	
Sheet	1	of	3	Application Number	10/056,055
				Filing Date	January 28, 2002
				First Named Inventor	Osamu NAKAMURA et al.
				Group Art Unit	2811
				Examiner Name	Unassigned
				Attorney Docket Number	0756-2428

U.S. PATENT DOCUMENTS					
Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
		6,426,276	B1	Ohnuma et al.	07/30/2002
		6,396,147	B1	Adachi et al.	05/28/2002
		6,461,943	B1	Yamazaki et al.	10/08/2002
		6,376,336	B1	Buynoski	04/23/2002
		6,255,195	B1	Linn et al.	07/03/2001
		4,371,403		Ikubo et al.	02/01/1983
		2001/0034088	A1	Nakamura et al.	10/25/2001
		5,932,893		Miyanaga et al.	08/03/1999
		6,022,458		Ichikawa	02/08/2000
		5,705,829		Miyanaga et al.	01/06/1998
		3,535,775		Garfinkel et al.	10/27/1970
		4,477,308		Gibson et al.	10/16/1984
		4,534,820		Mori et al.	08/13/1985
		5,244,819		Yue	09/14/1993
		5,275,896		Garofalo	01/04/1994
		5,403,772		Zhang et al.	04/04/1995
		5,426,064		Zhang et al.	06/20/1995
		5,481,121		Zhang et al.	01/02/1996
		5,488,000		Zhang et al.	01/30/1996
		5,492,843		Adachi et al.	02/20/1996
		5,501,989		Takayama et al.	03/26/1996
		5,508,533		Takemura	04/16/1996
		5,534,716		Takemura	07/09/1996
		5,543,352		Ohtani et al.	08/06/1996
		5,563,426		Zhang et al.	10/08/1996
		5,569,610		Zhang et al.	10/29/1996
		5,569,936		Zhang et al.	10/29/1996
		5,580,792		Zhang et al.	12/03/1996
		5,585,291		Ohtani et al.	12/17/1996
		5,589,694		Takayama et al.	12/31/1996

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Examiner Name	Unassigned				
Sheet	2	of	3	Attorney Docket Number	0756-2428

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		5,595,923		Zhang et al.	01/21/1997	
		5,595,944		Zhang et al.	01/21/1997	
		5,604,360		Zhang et al.	02/18/1997	
		5,605,846		Ohtani et al.	02/25/1997	
		5,606,179		Yamazaki et al.	02/25/1997	
		5,612,250		Ohtani et al.	03/18/1997	
		5,614,426		Funada et al.	03/25/1997	
		5,614,733		Zhang et al.	03/25/1997	
		5,616,506		Takemura	04/01/1997	
		5,620,910		Teramoto	04/15/1997	
		5,621,224		Yamazaki et al.	04/15/1997	
		5,624,851		Takayama et al.	04/29/1997	
		5,637,515		Takemura	06/10/1997	
		5,646,424		Zhang et al.	07/08/1997	
		5,654,203		Ohtani et al.	08/05/1997	
		5,656,825		Kusumoto et al.	08/12/1997	
		5,663,077		Adachi et al.	09/02/1997	
		5,696,386		Yamazaki	12/09/1997	
		5,696,388		Funada et al.	12/09/1997	
		5,712,191		Nakajima et al.	01/27/1998	
		5,744,824		Kousai et al.	04/28/1998	
		5,843,225		Takayama et al.	12/01/1998	
		5,677,549		Takayama et al.	10/14/1997	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ⁴	Kind Code ⁵ (if known)		
	JP	07-130652			05/19/1995	
	JP	08-078329			03/22/1996	Abstract

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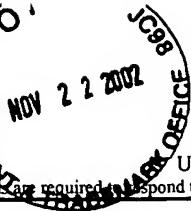
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		Office ³	Kind Code ³ (if known) Number ⁴				
		JP	09-074207		03/18/1997		Full
		JP	2000-260777		09/22/2000		Abstract
		JP	2001-210828		08/03/2001		Abstract

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS							
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					T ²
		U.S. Patent Application Serial No. 10/097,641, including specification, drawings and filing receipt, "Method of Manufacturing a Semiconductor Device", Shunpei YAMAZAKI et al., filed March 15, 2002.					
		U.S. Patent Application Serial No. 10/072,931, including specification, drawings and filing receipt, "Method of Manufacturing a Semiconductor Device", Shunpei YAMAZAKI et al., filed February 12, 2002.					
		U.S. Patent Application Serial No. 10/074,050, including specification, drawings and filing receipt, "Method of Manufacturing a Semiconductor Device", Shunpei YAMAZAKI et al., filed February 14, 2002.					
		U.S. Patent Application Serial No. 10/051,064, including specification, drawings and filing receipt, "Semiconductor Device and Method of Manufacturing the Same", filed January 18, 2002.					
		U.S. Patent Application Serial No. 10/066,542, including specification, drawings and filing receipt, "Semiconductor Device and Method for Manufacturing the Same", filed February 5, 2002.					
		U.S. Patent Application Serial No. 10/020,961, including specification, drawings and filing receipt, "Method of Manufacturing Semiconductor Device and Semiconductor Device", filed December 19, 2001.					
		M. Miyake et al., "Characteristics of Buried-Channel pMOS Devices with Shallow Counter-Doped Layers Fabricated Using Channel Preamorphization", IEEE Transactions on Electron Devices, Vol. 43, No. 3, March 1996, pp. 444-449.					
		L. S. Lee et al., "Argon Ion-Implantation on Polysilicon or Amorphous-Silicon for Boron Penetration Suppression in p+ pMOSFET", IEEE Transactions on Electron Devices, Vol. 45, No. 8, August 1998, pp. 1737-1744.					

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